To:

From the INTERNAT

AL BUREAU

NOTICE INFORMING COMMUNICATION OF APPLICATION TO THE (PCT Rule 47.1)

Date of mailing (day/month/year)
25 September 2003 (25) NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

GIUGNI, Valter Propria S.r.l.

Via Mazzini, 13 I-33170 Pordenone

ITALIE

Applicant's or agent's file reference B02122PCF2A

25 September 2003 (25.09.03)

IMPORTANT NOTICE

International application No. PCT/EP03/01555

International filing date(day/month/year) 17 February 2003 (17.02.03)

Priority date(day/month/year) 19 March 2002 (19.03.02)

Applicant

ELECTROLUX HOME PRODUCTS CORPORATION N.V.

Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

The following designated Offices have waived the requirement for such a communication at this time:

EP

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

- Enclosed with this notice is a copy of the international application as published by the International Bureau on 25 September 2003 (25.09.03) under No. 03/078357
- TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see PCT Gazette No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the PCT Newsletter, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at http://www.wipo.int/pct/en/index.html.

For filing a demand for international preliminary examination, see the PCT Applicant's Guide, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's sole responsibility to monitor all these time limits.

BEST AVAILABLE COPY

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Judith Zahra

Facsimile No.(41-22) 740.14.35

Telephone No.(41-22) 338.91.11

ATTACHMENT A

PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

То:				PCT		
Giugni, Valter PROPRIA S.R.L. Via Mazzini, 13 I-33170 Pordenone ITALIE		WRITTEN OPINION (PCT Rule 66)				
				Date of mailing (day/month/year)	18.08.2003	
1 ' '	cant's or age	nt's file reference A		REPLY DUE	within 3 month(s) from the above date of mailing	
	national appli ÆP03/015		International filing date (c 17.02.2003	day/month/year)	Priority date (day/month/year) 19.03.2002	
ł	national Pate F39/02	nt Classification (IPC) or	both national classification	and IPC		
Applic		K HOME PRODUCT	S CORPORATION N.	V. et al.		
1. 2.	This opinion I	Basis of the opinion Priority Non-establishment of Lack of unity of inven Reasoned statement citations and explana Certain documents ci Certain defects in the Certain observations ant is hereby invited t See the time limit indica request this Authority to By submitting a written of For the form and the land For an additional opport For the examiner's oblig For an informal communits stilled, the international	tion under Rule 66.2(a)(ii) witions supporting such stated international application on the international application or the international application or the international applicant magnat an extension, see Ruseply, accompanied, where guage of the amendments, unity to submit amendment ation to consider amendment ation with the examiner, appreliminary examination represents.	items: novelty, inventive step ith regard to novelty, i atement n lication ay, before the expiration ale 66.2(d). appropriate, by amendr see Rules 66.8 and 66. s, see Rule 66.4. ents and/or arguments, see Rule 66.6.	and industrial applicability inventive step or industrial applicability; n of that time limit, nents, according to Rule 66.3. 9.	
4.		late by which the interr on report must be estal	national preliminary olished according to Rule	e 69.2 is: 19.07.2004		

Name and mailing address of the international preliminary examining authority:

<u>)</u>

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Weinberg, E

Formalities officer (incl. extension of time limits) TATABOD, S

Telephone No. +49 89 2399-6467



WRITTEN OPINION

International application No.

PCT/EP03/01555

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••	_~~	 •		 	

1.		With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"):					
	Des	scription, Pages					
	1-9	•	as originally filed				
	Cla	ims, Numbers					
	1-1-	4	as originally filed				
	Dra	awings, Sheets	·				
	1/1		as originally filed				
2.			the elements marked above were available or furnished to this Authority in the nal application was filed, unless otherwise indicated under this item.				
	The	These elements were available or furnished to this Authority in the following language: , which is:					
 □ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b) □ the language of publication of the international application (under Rule 48.3(b)). □ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 							
3.			nd/or amino acid sequence disclosed in the international application, the ation was carried out on the basis of the sequence listing:				
		contained in the international	Il application in written form.				
		filed together with the interna	ational application in computer readable form.				
		furnished subsequently to th	is Authority in written form.				
		furnished subsequently to th	is Authority in computer readable form.				

The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

The statement that the information recorded in computer readable form is identical to the written sequence

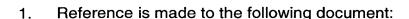
4. The amendments have resulted in the cancellation of:

	the description,	pages:
	the claims,	Nos.:
П	the drawings	sheets:

listing has been furnished.

5.		This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement sheet conta opinion.)	aining such a	mendments must be referred to under item 1 and annexed to this		
6.	Add	litional observations, if necessa	ary:			
111	. Nor	n-establishment of opinion w	ith regard to	o novelty, inventive step and industrial applicability		
1.				ppears to be novel, to involve an inventive step (to be non- not been and will not be examined in respect of:		
		the entire international applica	ation,			
	\boxtimes	claims Nos. 14				
		because:				
		the said international application not require an international process.		id claims Nos. relate to the following subject matter which does amination (specify):		
	⊠	the description, claims or draw unclear that no meaningful op		te particular elements below) or said claims Nos. 14 are so e formed (specify):		
		see separate sheet				
		the claims, or said claims Nos could be formed.	s. are so inad	equately supported by the description that no meaningful opinion		
		no international search report	has been es	tablished for the said claims Nos.		
2.	A w	ritten opinion cannot be drawn ply with the Standard provided	due to the fa for in Annex	ailure of the nucleotide and/or amino acid sequence listing to c C of the Administrative Instructions:		
		the written form has not been	furnished or	does not comply with the Standard.		
		the computer readable form h	as not been t	furnished or does not comply with the Standard.		
٧.		soned statement under Rule licability; citations and expla		vith regard to novelty, inventive step or industrial opporting such statement		
1.	Stat	ement				
	Nov	elty (N)	Claims	1-13		
	Inve	entive step (IS)	Claims	1-13		
	Indu	strial applicability (IA)	Claims	1-13		
2.	Cita	tions and explanations				

see separate sheet



D1: DE 37 14 301 A

- 2. The subject-matter of independent claim 14 is so unclear (Art. 6 PCT), that no opinion can be established (Art. 34(4)a)ii) PCT and Art. 35(3)a) PCT) with regard to novelty, inventive step and industrial applicability of the subject-matter of this claim. Claim 14 defines the subject-matter for which protection is sought by merely referring to all figures attached to the application without stating explicitly any technical feature. Hence, the technical features of claim 14 are totally in the obscure. Therefore, claim 14 does not comply with Art. 6 PCT and with Rule 6.2(a) PCT. This objection could have been avoided by deleting independent claim 14.
- The subject-matter of independent claim 1 and of dependent claims 2-13 complies 3. with the requirements of Art. 33(1) PCT for the following reasons:

The closest prior art is represented by D1 which discloses (see D1, column 2, lines 56-60, claim 1, figure 1) the features of the preamble of independent claim 1 and which discloses also a second siphon provided in the compartment of the washing aid dispenser.

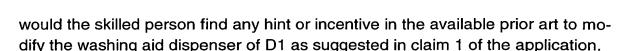
The technical problem solved by the present application is to provide a washing machine with a low-cost, reliable, easy to manufacture washing aid dispenser, said washing aid dispenser being capable of working in an optimum manner with liquids of different densities, even if they do not mix up homogeneously together inside the dispenser itself (see page 2, line 33 - page 3, line 29).

The solution to this problem is provided by the characterising part of independent claim 1, in particular in that the second siphon has a higher suction height than the first siphon to draw-in and convey towards said washing tub a second layer of said mixture (claim 1, lines 20-23).

The difference between claim 1 and D1 is that all the siphons of the washing aid dispenser of D1 have the same suction height with respect to the bottom of the dispenser. Consequently, the washing aid dispenser of D1 is not capable to drawin simultaneously a mixture of water and washing aids at different levels.

Therefore, the combination of the features of independent claim 1 is neither known from the available prior art cited in the International Search Report, nor

WRITTEN OPINION SEPARATE SHEET



Consequently, the subject-matter of claim 1 and of the claims 2-13 which are dependent on claim 1 is new, inventive and industrially applicable. Therefore, the subject-matter of claims 1-13 meets the requirements of Art. 33(1) PCT.

- 4. Further, although the subject-matter of claims 1-13 meets the requirements of Art. 33(1) PCT with respect to the available prior art, amendments are required to overcome the objections below.
- In independent claim 1 and dependent claim 2, the washing aid dispenser is dea. fined by reference to its relationship to further components of a washing machine which are not part of the washing aid dispenser, like the "washing tub" (claim 1, lines 18, 21) in claim 1 and the "water supply means" (clam 2, lines 26-29) and the features of the "water supply means" outlined in claim 2. Therefore, these claims are unclear (Art. 6 PCT, PCT-Guidelines III-4.8.) since, though directed to a washing aid dispenser, they define a washing aid dispenser

This objection could have been avoided by directing claims 1-12 to a "washing machine comprising a washing aid dispenser". Consequently, claim 13 would have been superfluous.

not per se but its relationship to a washing machine.

Further, the term "in said compartment (3, 103) there is provided a second siphon (14, 114)" (claim 1, lines 19-20) is incorrectly placed in the characterising portion, as these features are already disclosed in D1 (see D1, claim 1) in combination with the features placed in the preamble (Rule 6.3(b) PCT).

- b. The following terms used in claim 9 are vague and unclear (Art. 6 PCT) and leave the reader in doubt as to the meaning of the technical features to which they refer:
 - The term "a pre-defined angle" (claim 9, line 30) refers in fact to any angle between 0° and 360°. Therefore, the intended limitations are unclear.
 - The term "longitudinally variable along the dispenser" (claim 9, lines 31-32) is b) unclear since there is no longitudinal direction of the dispenser defined.

Further, claim 9 is wrongly (Art. 6 PCT, Rule 6.4 PCT) drafted as a claim dependent on "any of the preceding claims", because the "second cap piece (116)" (claim 9, line 29) referred to in claim 9 is only defined in claim 3.

- In claim 11, the term "pre-defined angle" (claim 11, line 6) and the definition of the C. "second suction zone" (claim 11, lines 7-8) with respect to the first suction zone are unclear (Art. 6 PCT).
 - Further, claim 11 is wrongly (Art. 6 PCT, Rule 6.4 PCT) drafted as a claim dependent on "any of the preceding claims", because the "third cap piece (119)", the "second suction zone (F')", and the "first suction zone (F)" in claim 11 are only defined in claim 10.
- d. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.
- 5. In order to remedy the above objections, the applicant is invited to file amended claims. The attention of the applicant is drawn to the fact that the application may not be amended in such a way that it contains subject-matter which extends beyond the content of the application as filed (Art. 34(2) b) PCT).

In order to facilitate the examination of the conformity of the amended application with the requirements of Art. 34(2)(b) PCT, the applicant is requested to clearly identify the amendments carried out, no matter whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based (Rule 66.8(a) PCT).

The applicant's attention is drawn to the fact that, as a consequence of Rule 66.8(a) PCT the examiner is not permitted to carry out any amendments under the PCT procedure, however minor these may be.

- 10. Washing machine according to claim 7, characterized in that the base (121) of said third cap piece (119) forms an acute angle with respect to the bottom (112) of the dispenser (102) so as to define a second suction zone (F') having a variable suction height in respect to said bottom (112).
- 11. Washing machine according to claims 9 and 10, characterized in that said second suction zone (F') is located at a greater distance from said bottom (112) than said first suction zone (F).

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- 12. Washing machine according to claim 11, **characterized in that** said second suction zone (F') has a lower level that substantially coincides with the upper level of said first suction zone (F), and extends with the same inclination as the latter, in such a manner as to obtain a substantially continuous suction zone including said first and said second zones (F, F').
 - 13. Washing aid dispenser for a washing machine provided with at least a compartment (3, 103) adapted to contain said washing aids and to supply the washing tub of said washing machine with a mixture of water and said washing aids, said compartment (3, 103) being provided with a first siphon (8, 108) having a pre-determined suction height (h) to draw in and convey towards the washing tub of said washing machine a first layer of said mixture, and at least a second siphon (14, 114), **characterized in that** said second siphon (14, 114) has a suction height (H) higher than said first siphon (8, 108) to supply said washing machine with a second layer of said mixture, said second layer lying in said dispenser (2, 102) at a greater height with respect to said first layer.

- 10. Washing machine according to claim 7, characterized in that the base (121) of said third cap piece (119) forms an acute angle with respect to the bottom (112) of the dispenser (102) so as to define a second suction zone (F') having a variable suction height in respect to said bottom (112).
- 11. Washing machine according to claims 9 and 10, characterized in that said second suction zone (F') is located at a greater distance from said bottom (112) than said first suction zone (F).

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- 12. Washing machine according to claim 11, **characterized in that** said second suction zone (F') has a lower level that substantially coincides with the upper level of said first suction zone (F), and extends with the same inclination as the latter, in such a manner as to obtain a substantially continuous suction zone including said first and said second zones (F, F').
 - 13. Washing aid dispenser for a washing machine provided with at least a compartment (3, 103) adapted to contain said washing aids and to supply the washing tub of said washing machine with a mixture of water and said washing aids, said compartment (3, 103) being provided with a first siphon (8, 108) having a pre-determined suction height (h) to draw in and convey towards the washing tub of said washing machine a first layer of said mixture, and at least a second siphon (14, 114), **characterized in that** said second siphon (14, 114) has a suction height (H) higher than said first siphon (8, 108) to supply said washing machine with a second layer of said mixture, said second layer lying in said dispenser (2, 102) at a greater height with respect to said first layer.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PROPRIA S.R.L. Attn. Giugni, Valter Via Mazzini. 13

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

I-33170 Pordenone	(PCT Rule 44.1)						
	Date of mailing (day/month/year) 26/05/2003						
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below						
BO2122PCE2A							
International application No. PCT/EP 03/01555	International filing date (day/month/year) 17/02/2003						
Applicant							
ELECTROLUX HOME PRODUCTS CORPORATION N.V							
1. X The applicant is hereby notified that the International Search	n Report has been established and is transmitted herewith.						
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	s of the International Application (see Rule 46):						
When? The time limit for filing such amendments is norma International Search Report; however, for more de	When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.						
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35							
For more detailed instructions, see the notes on the acco	mpanying sheet.						
The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.							
3. With regard to the protest against payment of (an) addition	onal fee(s) under Rule 40.2, the applicant is notified that:						
the protest together with the decision thereon has bee applicant's request to forward the texts of both the pro	n transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.						
no decision has been made yet on the protest; the app	olicant will be notified as soon as a decision is made.						
4. Further action(s): The applicant is reminded of the following:							
Shortly after 18 months from the priority date, the international a If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided completion of the technical preparations for international publica	e of withdrawal of the international application, or of the in Rules 90 <i>bis.</i> 1 and 90 <i>bis.</i> 3, respectively, before the						
Within 19 months from the priority date, a demand for internation wishes to postpone the entry into the national phase until 30 mg	nal preliminary examination must be filed if the applicant onths from the priority date (in some Offices even later).						
Within 20 months from the priority date, the applicant must perfo before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	ne demand or in a later election within 19 months from the						

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Malene Strarup

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
B02122PCE2A	ACTION					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/EP 03/01555	17/02/2003	19/03/2002				
Applicant						
ELECTROLUX HOME PRODUCTS	CORPORATION N.V.					
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant				
This International Search Report consists X	of a total of3 sheets. a copy of each prior art document cited in this	report.				
Basis of the report						
	international search was carried out on the ba ess otherwise indicated under this item.	sis of the international application in the				
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a translation of t	he international application furnished to this				
b. With regard to any nucleotide an was carried out on the basis of th	e sequence listing:	nternational application, the international search				
I 🛏	onal application in written form.	_				
I 📙 ,	ernational application in computer readable for	n.				
	this Authority in written form. this Authority in computer readble form.					
the statement that the sul	osequently fumished written sequence listing o	loes not go beyond the disclosure in the				
international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been						
furnished						
2. Certain claims were fou	nd unsearchable (See Box I).					
3. Unity of invention is lacking (see Box II).						
4. With regard to the title ,						
X the text is approved as su	bmitted by the applicant.					
the text has been establis	hed by this Authority to read as follows:					
5. With regard to the abstract,						
X the text is approved as su	bmitted by the applicant.					
	hed, according to Rule 38.2(b), by this Authoric date of mailing of this international search re					
6. The figure of the drawings to be pub	ished with the abstract is Figure No.	2				
as suggested by the appli	cant.	None of the figures.				
because the applicant fail						
because this figure better	characterizes the invention.					

INTERNATIONAL SEARCH REPORT

Internation	ıal Ap	oplication No
		3/01555

		4	(EP 03/01555
a. classif IPC 7	FICATION OF SUBJECT MATTER D06F39/02		
According to	International Patent Classification (IPC) or to both national classificat	ion and IPC	
B. FIELDS			
	cumentation searched (classification system followed by classification D06F A47L	n symbols)	
Documentat	ion searched other than minimum documentation to the extent that su	ch documents are include	ed in the fields searched
	ata base consulted during the international search (name of data base ternal, WPI Data, PAJ	e and, where practical, s	earch terms used)
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.
A	DE 37 14 301 A (BOSCH SIEMENS HAU 10 November 1988 (1988-11-10) * the whole document *	SGERAETE)	1,13,14
A	EP 0 225 220 A (ESSWEIN SA) 10 June 1987 (1987-06-10) column 4, line 21 - line 46 column 6, line 3 - line 12 claims 1,6; figures 3,4		1,13,14
Furt	her documents are listed in the continuation of box C.	χ Patent family m	embers are listed in annex.
"A" docume consider the consideration of the country of the countr	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international	or priority date and cited to understand invention "X" document of particul cannot be consider involve an inventive "Y" document of particul cannot be consider document is combinents, such combinin the art. "&" document member of the cited of the consider document is combinents, such combine	shed after the international filing date not in conflict with the application but the principle or theory underlying the ar relevance; the claimed invention ed novel or cannot be considered to step when the document is taken alone ar relevance; the claimed invention ed to involve an inventive step when the led with one or more other such docunation being obvious to a person skilled of the same patent family
1	.5 May 2003	26/05/20	003
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Weinberg	ı, E

INTERNATIONAL SEARCH REPORT

Information on patent family members

International		
EP	03/01555	

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
DE 3714301	Α	10-11-1988	DE	3714301 A1	10-11-1988
EP 0225220	A	10-06-1987	FR DE EP	2589170 A1 3667514 D1 0225220 A1	30-04-1987 18-01-1990 10-06-1987

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PATENT COOPERATION TREATY



"PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

· · · · · · ·						
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of 5 sheets.						
•						

INTERNATIONAL PRELIMINARY A EXAMINATION REPORT

International application No.

PCT/EP03/01555

 Basis of the report 	I. I	Bas	is o	f the	repo	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages	
	1, 3	3-9	as originally filed
	2, 2	a	received on 08.11.2003 with letter of 03.11.2003
	01-	ima Nombono	
		ims, Numbers	
	1-13	3	received on 08.11.2003 with letter of 03.11.2003
	Dra	wings, Sheets	
	1/1		as originally filed
2.	With lang	h regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	ese elements were av	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publ	ication of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.	nslation furnished for the purposes of international preliminary examination (under 3).
3.			totide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	rnational application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequer	ntly to this Authority in written form.
		furnished subsequer	ntly to this Authority in computer readable form.
		The statement that the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.
		The statement that the listing has been furnit	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have re	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP03/01555

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-13

No: Claims

Inventive step (IS) Yes: Claims 1-13

No: Claims

Industrial applicability (IA) Yes: Claims 1-13

No: Claims

2. Citations and explanations

see separate sheet

The subject-matter of independent claims 1, 13 and of dependent claims 2-12 complies with the requirements of Art. 33(1) PCT for the following reasons:

1. **Closest prior art**

The closest prior art is represented by DE 37 14 301 A (D1), cited in the description on page 2, line 5-8, which discloses (see D1, column 2, lines 56-60, claim 1, figure 1) the features of the preamble of independent claims 1 and 13.

2. Underlying problem

The technical problem solved by the present application is to provide a washing machine with a low-cost, reliable, easy to manufacture washing aid dispenser, said washing aid dispenser being capable of working in an optimum manner with liquids of different densities, even if they do not mix up homogeneously together inside the dispenser itself (see page 2a, line 5 - page 3, line 29).

3. Solution to the problem

The solution to this problem is provided by the characterising part of the independent claims 1 and 13, in particular in that the second siphon has a higher suction height than the first siphon to draw-in and convey towards said washing tub a second layer of said mixture (claim 1, lines 20-23).

4. Difference to the prior art

The difference between the independent claims 1 and 13 on one hand and D1 on the other hand is that all the siphons of the washing aid dispenser of D1 have the same suction height with respect to the bottom of the dispenser. Consequently, the washing aid dispenser of D1 is not capable to draw-in simultaneously a mixture of water and washing aids at different levels. This feature is also not disclosed in the other document EP 0 225 220 cited in the International Search Report.

Therefore, the combination of the features of each independent claim is neither known from the available prior art cited in the International Search Report, nor would the skilled person find any hint or incentive in the available prior art to modify the washing aid dispenser of D1 as suggested in the independent claims of the present application.

5. Conclusion

EXAMINATION REPORT - SEPARATE SHEET

Consequently, the subject-matter of claims 1-12 relating to a washing machine and of claim 13 relating to a washing aid dispenser for a washing machine is new, inventive and industrially applicable. Therefore, the subject-matter of these claims meets the requirements of Art. 33(1) PCT.

Note:

The amendments to claim 13 submitted with the letter dated 03.11.2003 introduces subject-matter which extends beyond the content of the application as filed, contrary to Art. 34(2)b) PCT.

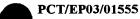
Therefore, this International Preliminary Examination Report has been drawn up as if the following amendments have been made In order to meet these requirements of Art. 34(2)b) PCT:

- the term "to supply said washing machine with (...)" in claim 13, lines 18-19 i) should have been amended to "to supply the washing tub of said washing machine with (...)";
- further the term "to supply said washing machine with a (...)" in claim 13, ii) lines 21-22 and lines 24-25 should have been amended to "to draw in and convey towards the washing tub of said washing machine a (...)".

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to be triggered, i.e. primed into working and, as a result, the liquid detergent substance to be drawn in from the dispenser towards the washing tub duly mixed with the inflowing water.

ACT BE MIST

A typical drawback which is encountered with currently used types of dispensers lies in the fact that the siphon must work with liquids of different densities (water and liquid washing aid, e.g. a fabric softener), which do not mix up very well, i.e. homogeneously together, but, owing to the flow pattern that is brought about inside the dispenser, tend to rather take a stratified or layered form, without any clear separation between water and washing substance. Such a layer-forming mixing of water and washing aid causes the siphon to work in a discontinuous manner, in which water is drawn in preferentially with respect to the washing aid. As a result, it quite often occurs that, upon conclusion of the washing cycle performed by the machine, remnants of the denser washing aids or products, such as for instance the fabric softener, can still be found on the bottom of the respective compartments in the dispenser.

Such a drawback might be overcome through an increase in the inflow pressure of the water supplied to the dispenser, but this would unavoidably give rise to excessive frothing during mixing with the liquid detergent substance so as to anyway cause the siphon to work irregularly or, in the worst case, lead to suds flowing over the dispenser and cause a lot of inconvenience.

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Another possible solution in this connection lies in increasing the negative pressure generated by the siphon so as to obtain a greater drawin capability. This solution, however, implies an increase in the overall size of the siphon and, as a result, it turns out to be scarcely practicable due to construction-related limitations imposed by the machine requiring extremely reduced sizes in general.

It therefore is a main purpose of the present invention to do away with

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<u>CLAIMS</u>

- 1. Washing aid dispenser for a washing machine comprising a washing tub adapted to be supplied, through said dispenser, with a mixture of water and said washing aids, said washing aid dispenser (2, 102) being provided with at least a compartment (3, 103), which is adapted to contain said washing aids and is provided with a first siphon (8, 108) having a pre-determined suction height (h) to draw-in and convey towards said washing tub a first layer of said mixture, **characterized in that** in said compartment (3, 103) there is provided at least a second siphon (14, 114) having a higher suction height (H) than said first siphon (8, 108) to draw-in and convey towards said washing tub a second layer of said mixture, said second layer lying in said dispenser (2, 102) at a greater height with respect to said first layer.
- 2. Washing aid dispenser according to claim 1, **characterized in that** said at least a compartment (3, 103) is in communication with water supply means (4, 104) adapted to deliver water from said machine, said water supply means being provided with a plurality of apertures (7, 107) adapted to let water into said compartment (3, 103).

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3. Washing aid dispenser according to claim 1, characterized in that said first and second siphons (8, 14, 108, 114) are formed by a first conduit (9, 109) associated to a first cap piece (10, 110) situated



thereabove and a second conduit (15, 115) associated to a second cap piece (16, 116) situated thereabove, respectively, in which each one of said first and second conduits (9, 15, 109, 115) is open at both opposite extremities thereof.

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- 4. Washing aid dispenser according to claim 1, characterized in that the water head of said second siphon (14, 114) is higher than the water head of said first siphon (8, 108).
- 5. Washing aid dispenser according to claims 3 and 4, **characterized** in that the diameter of said second conduit (15, 115) is larger than the diameter of said first conduit (9, 109).
- 6. Washing aid dispenser according to claim 1, characterized in that in said compartment (3, 103) there is further provided a third siphon (17, 117) having a suction height (H') that is greater than the suction height (H) of said second siphon (14, 114).
- 7. Washing aid dispenser according to claim 6, **characterized in that** said third siphon (17, 117) is formed by a third conduit (18, 118) that is open at both opposite ends thereof, ad a third cap piece (19, 119) situated thereabove.
 - 8. Washing aid dispenser according to claims 4 and 6, **characterized** in **that** the water head of said third siphon (17, 117) is higher than or equal to the water head of said second siphon (14, 114).
 - 9. Washing aid dispenser according to any of the preceding claims, characterized in that the base (120) of said second cap piece (116) forms a pre-defined angle with respect to the bottom (112) of the dispenser (102) so as to define a suction height which is longitudinally variable along the same dispenser.



- 10. Washing aid dispenser according to claim 9, characterized in that said longitudinally variable suction height forms a first suction zone (F).
- 11. Washing aid dispenser according to any one of the preceding claims or any combination thereof, **characterized in that** the base (121) of said third cap piece (119) forms a pre-defined angle with respect to the bottom (112) of the dispenser (102) so as to define a second suction zone (F') lying at a greater distance from said bottom (112) than said first suction zone (F).

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- 12. Washing aid dispenser according to claim 11, characterized in that said second suction zone (F) has a lower level that substantially coincides with the upper level of said first suction zone (F), and extends with the same inclination as the latter, in such a manner as to obtain a substantially continuous suction zone including said first and said second zones (F, F).
- 13. Washing machine comprising a washing aid dispenser as claimed in claim 1.

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14. Washing aid dispenser and washing machine comprising said washing aid dispenser characterized by what has been described and illustrated in and with reference to the accompanying drawings.

PATENT COOPERATION TREATY







INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference B02122PCE2A	FOR FURTHER ACTION	One black and a second
International application No. PCT/EP03/01555	International filing date (day/mo 17.02.2003	nth/year) Priority date (day/month/year) 19.03.2002
International Patent Classification (IPC) o D06F39/02	r both national classification and IPC	
Applicant ELECTROLUX HOME PRODUC	TS CORPORATION N.V. et a	ıl.
	xamination report has been prep the applicant according to Article	ared by this International Preliminary Examining 36.
2. This REPORT consists of a total	al of 5 sheets, including this cov	er sheet.
been amended and are the		of the description, claims and/or drawings which have ets containing rectifications made before this Authority tructions under the PCT).
These annexes consist of a total	al of 5 sheets.	
This report contains indications	valating to the following items	
I ⊠ Basis of the opinion II □ Priority		
	of oninion with regard to novelty	inventive step and industrial applicability
IV Lack of unity of inve		inventive step and industrial applicability
V ⊠ Reasoned statemer		ard to novelty, inventive step or industrial applicability;
VI Certain documents		
VII Certain defects in the	ne international application	•
VIII Certain observation	s on the international application	
Date of submission of the demand	Date	of completion of this report
12.07.2003	20.1	1.2003
Name and mailing address of the internal preliminary examining authority:	ional Autho	rized Officer
European Patent Office D-80298 Munich	Weir	nberg, E
Tel. +49 89 2399 - 0 Tx: 52 Fax: +49 89 2399 - 4465	23656 epmu d	hone No. +49 89 2399-2298

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP03/01555

	Racie	of the	report
1.	Dasis	vi uie	IEDUIL

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	scription, Pages	
	1, 3	3-9	as originally filed
	2, 2	2a	received on 08.11.2003 with letter of 03.11.2003
	Cla	aims, Numbers	
		•	
	1-1	3	received on 08.11.2003 with letter of 03.11.2003
	Dra	awings, Sheets	
	1/1		as originally filed
2.	Wit lan	th regard to the langu guage in which the in	lage, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).
			lication of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).
3.	Wit inte	h regard to any nucl e rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	ernational application in written form.
		filed together with th	e international application in computer readable form.
		furnished subseque	ntly to this Authority in written form.
		furnished subseque	ntly to this Authority in computer readable form.
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
ŀ.	The	amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP03/01555

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-13

No: Claims

Inventive step (IS) Yes: Claims 1-13

No: Claims

Industrial applicability (IA) Yes: Claims 1-13

No: Claims

2. Citations and explanations

see separate sheet



The subject-matter of independent claims 1, 13 and of dependent claims 2-12 complies with the requirements of Art. 33(1) PCT for the following reasons:

1. Closest prior art

The closest prior art is represented by DE 37 14 301 A (D1), cited in the description on page 2, line 5-8, which discloses (see D1, column 2, lines 56-60, claim 1, figure 1) the features of the preamble of independent claims 1 and 13.

2. Underlying problem

The technical problem solved by the present application is to provide a washing machine with a low-cost, reliable, easy to manufacture washing aid dispenser, said washing aid dispenser being capable of working in an optimum manner with liquids of different densities, even if they do not mix up homogeneously together inside the dispenser itself (see page 2a, line 5 - page 3, line 29).

3. Solution to the problem

The solution to this problem is provided by the characterising part of the independent claims 1 and 13, in particular in that the second siphon has a higher suction height than the first siphon to draw-in and convey towards said washing tub a second layer of said mixture (claim 1, lines 20-23).

Difference to the prior art 4.

The difference between the independent claims 1 and 13 on one hand and D1 on the other hand is that all the siphons of the washing aid dispenser of D1 have the same suction height with respect to the bottom of the dispenser. Consequently, the washing aid dispenser of D1 is not capable to draw-in simultaneously a mixture of water and washing aids at different levels. This feature is also not disclosed in the other document EP 0 225 220 cited in the International Search Report.

Therefore, the combination of the features of each independent claim is neither known from the available prior art cited in the International Search Report, nor would the skilled person find any hint or incentive in the available prior art to modify the washing aid dispenser of D1 as suggested in the independent claims of the present application.

5. Conclusion

EXAMINATION REPORT - SEPARATE SHEET

Consequently, the subject-matter of claims 1-12 relating to a washing machine and of claim 13 relating to a washing aid dispenser for a washing machine is new, inventive and industrially applicable. Therefore, the subject-matter of these claims meets the requirements of Art. 33(1) PCT.

Note:

The amendments to claim 13 submitted with the letter dated 03.11.2003 introduces subject-matter which extends beyond the content of the application as filed. contrary to Art. 34(2)b) PCT.

Therefore, this International Preliminary Examination Report has been drawn up as if the following amendments have been made In order to meet these requirements of Art. 34(2)b) PCT:

- the term "to supply said washing machine with (...)" in claim 13, lines 18-19 should have been amended to "to supply the washing tub of said washing machine with (...)";
- further the term "to supply said washing machine with a (...)" in claim 13, ii) lines 21-22 and lines 24-25 should have been amended to "to draw in and convey towards the washing tub of said washing machine a (...)".

to be triggered, i.e. primed into working and, as a result, the liquid detergent substance to be drawn in from the dispenser towards the washing tub duly mixed with the inflowing water.

DE 37 14 301 A1 discloses a plurality of syphon blocks, formed from a small standpipe and a cap, arranged in a washing-agent flush-in tray in such a way that, if one syphon fails to suck up the mixture consisting of washing-agent and water, the other syphons continue to work.

A typical drawback which is encountered with currently used types of dispensers lies in the fact that the siphon must work with liquids of different densities (water and liquid washing aid, e.g. a fabric softener), which do not mix up very well, i.e. homogeneously together, but, owing to the flow pattern that is brought about inside the dispenser, tend to rather take a stratified or layered form, without any clear separation between water and washing substance. Such a layer-forming mixing of water and washing aid causes the siphon to work in a discontinuous manner, in which water is drawn in preferentially with respect to the washing aid. As a result, it quite often occurs that, upon conclusion of the washing cycle performed by the machine, remnants of the denser washing aids or products, such as for instance the fabric softener, can still be found on the bottom of the respective compartments in the dispenser.

Such a drawback might be overcome through an increase in the inflow pressure of the water supplied to the dispenser, but this would unavoidably give rise to excessive frothing during mixing with the liquid detergent substance so as to anyway cause the siphon to work irregularly or, in the worst case, lead to suds flowing over the dispenser and cause a lot of inconvenience.

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Another possible solution in this connection lies in increasing the negative pressure generated by the siphon so as to obtain a greater drawin capability. This solution, however, implies an increase in the overall size

of the siphon and, as a result, it turns out to be scarcely practicable due to construction-related limitations imposed by the machine requiring extremely reduced sizes in general.

It therefore is a main purpose of the present invention to do away with **5** .

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CLAIMS

- 1. Washing machine comprising a washing aid dispenser and a washing tub adapted to be supplied, through said dispenser, with a mixture of water and said washing aids, said washing aid dispenser (2, 102) being provided with at least a compartment (3, 103), which is adapted to contain said washing aids and is provided with a first siphon (8, 108) having a pre-determined suction height (h) to draw-in and convey towards said washing tub a first layer of said mixture, and at least with a second siphon, characterized in that said second siphon (14, 114) has a suction height (H) higher than said first siphon (8, 108) to draw-in and convey towards said washing tub a second layer of said mixture, said second layer lying in said dispenser (2, 102) at a greater height with respect to said first layer.
- 25 2. Washing machine according to claim 1, characterized in that said at least a compartment (3, 103) is in communication with water supply means (4, 104) adapted to deliver water from said machine, said water supply means being provided with a plurality of apertures (7, 107) adapted to let water into said compartment (3, 103).
 - 3. Washing machine according to claim 1, characterized in that said first and second siphons (8, 14, 108, 114) are formed by a first conduit (9, 109) associated to a first cap piece (10, 110) situated thereabove and a



second conduit (15, 115) associated to a second cap piece (16, 116) situated thereabove, respectively, in which each one of said first and second conduits (9, 15, 109, 115) is open at both opposite extremities thereof.

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4. Washing machine according to claim 1, characterized in that the water head of said second siphon (14, 114) is higher than the water head of said first siphon (8, 108).

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5. Washing machine according to claims 3 and 4, characterized in that the diameter of said second conduit (15, 115) is larger than the diameter of said first conduit (9, 109).

6. Washing machine according to claim 1, characterized in that in said compartment (3, 103) there is further provided a third siphon (17, 117) having a suction height (H') that is greater than the suction height (H) of said second siphon (14, 114).

7. Washing machine according to claim 6, characterized in that said third siphon (17, 117) is formed by a third conduit (18, 118) that is open at both opposite ends thereof, and a third cap piece (19, 119) situated thereabove.

8. Washing machine according to claims 4 and 6, characterized in 25 that the water head of said third siphon (17, 117) is higher than or equal to the water head of said second siphon (14, 114).

9. Washing machine according to claim 3, characterized in that the base (120) of said second cap piece (116) forms an acute angle with respect to the bottom (112) of the dispenser (102) so as to define a first suction zone (F) having a variable suction height in respect to said bottom (112).

- 10. Washing machine according to claim 7, characterized in that the base (121) of said third cap piece (119) forms an acute angle with respect to the bottom (112) of the dispenser (102) so as to define a second suction zone (F) having a variable suction height in respect to said bottom (112).
- 11. Washing machine according to claims 9 and 10, characterized in that said second suction zone (F') is located at a greater distance from said bottom (112) than said first suction zone (F).

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- 12. Washing machine according to claim 11, characterized in that said second suction zone (F') has a lower level that substantially coincides with the upper level of said first suction zone (F), and extends with the same inclination as the latter, in such a manner as to obtain a substantially continuous suction zone including said first and said second zones (F, F').
- 13. Washing aid dispenser for a washing machine provided with at least a compartment (3, 103) adapted to contain said washing aids and to supply said washing machine with a mixture of water and said washing aids, said compartment (3, 103) being provided with a first siphon (8, 108) having a pre-determined suction height (h) to supply said washing machine with a first layer of said mixture, and at least a second siphon (14, 114), characterized in that said second siphon (14, 114) has a suction height (H) higher than said first siphon (8, 108) to supply said washing machine with a second layer of said mixture, said second layer lying in said dispenser (2, 102) at a greater height with respect to said first layer.

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